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1784
68

FOREST CONTROL

by

CONTINUOUS INVENTORY

"Today I have grown taller from walking with the trees."

...Karle Wilson

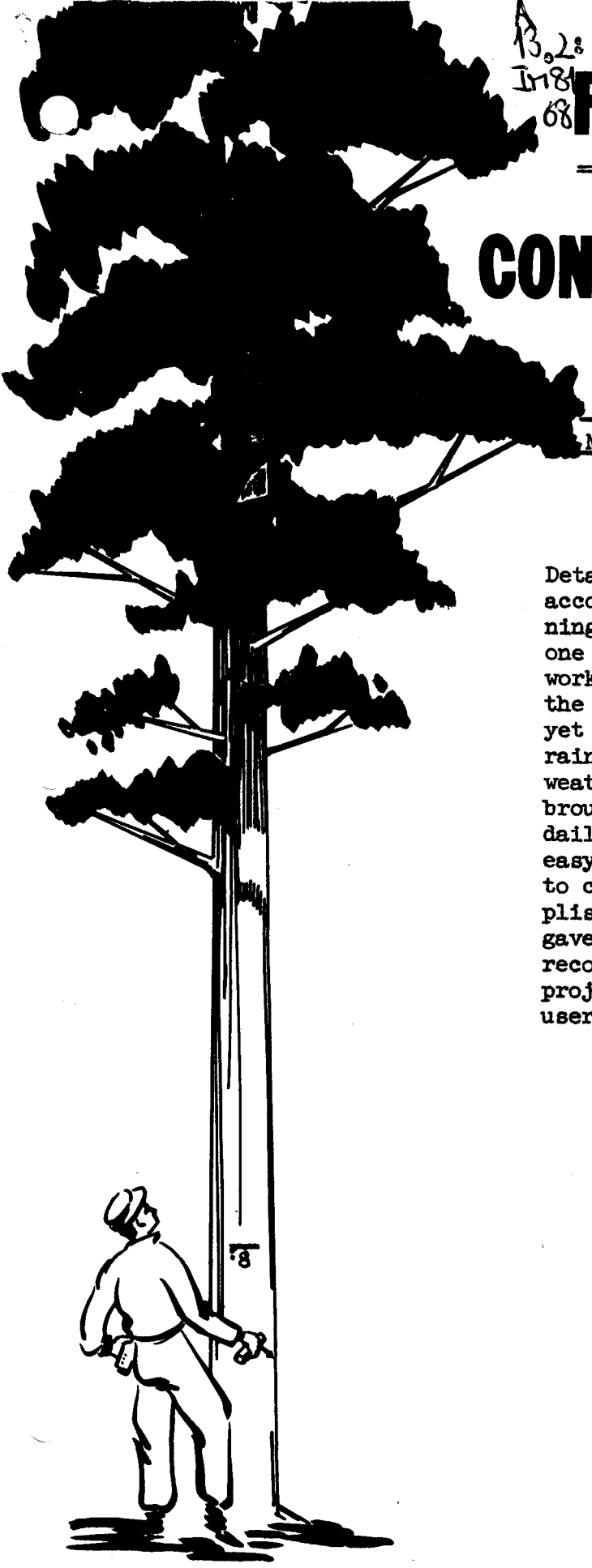
Milwaukee, Wis. November, 1959 No. 68

ACCOMPLISHMENT PLANS ARE IMPORTANT

Detailed plans of work with the anticipated accomplishment should be made at the beginning of every CFI project. Records like the one attached have a wonderful effect on the work done each day. Many times last fall the rains threatened to hold up our work, yet not a single day was lost because of rain. All of the crews braved the bad weather, headed for the woods and always brought home at least a portion of their daily plot quota. The men all knew how easy it was to fall behind and how difficult to catch up. Our work program and accomplishment record kept them informed. It gave them incentive to keep producing. We recommend most heartily this system of work projecting and accomplishment to the many users of the CFI system.

Lynn Sandberg, Manager
Forestry Division

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FORESTER NEWMAN BERGH - A THOROUGH CFI ORGANIZER FOR CELOTEX.
HERE IS A REVIEW OF HIS WORK PLAN AND ITS COST OF ACCOMPLISHMENT
A PORT-A-PUNCH PROJECT

THE TIME AND THE CREW FOR THE WORK

The Celotex CFI project was completed between July 8 and November 2, 1958, with 84 days of actual field work. There were 4 crews for the total period and an extra crew for 32 days. In addition, there was constant inspection and check of the crews by a chief of party.

DESCRIPTION OF THE 242,256 ACRE PROJECT AREA

The Celotex lands are in northern Michigan. The forest consists almost entirely of northern hardwood, spruce-balsam fir and aspen stands. Most of the hardwoods have been cut either clear or on a heavy selection basis, only one-eighth of the total acres remaining uncut at the time of the inventory.

The terrain is rolling to hilly with heavy brush and young growth cover. Much partially decayed slash cluttered the ground and access to the plots was difficult and foot travel slow. While the area was fairly well roaded, almost half of the plots were more than one mile from the nearest travelable road. In general the forest may be considered one of more than average difficulty for permanent plot work.

The tally was heavy, averaging 28 trees 5" and larger per 1/5-acre plot. A few sawlog size trees occurred on most of the plots. The stand averaged 13 cords per acre of all timber sizes. Over 22,000 trees were Port-a-Punched on 758 plots, of which only 14 were complete blanks.

THE RATE OF PLOT ESTABLISHMENT

The Celotex plots were established at an average rate of 2.1 plots per crew day, variations by crew ranging from 1.8 to 2.3 plots. The crews averaged 4-1/2 hours per plot and this ranged from 3.8 to 5.5 hours. The company wishing to establish the estimated time for a similar project will find these figures applicable with plots of similar size, where a single plot grid at 57 chain intervals is used and where the terrain, accessibility and volumes per acre correspond.

THE CASH OUTLAY FOR THE WORK

308 gallons of orange location line paint	\$ 998.57
72 gallons of outside white paint	351.02
10 gallons of spray gun cleaner	12.36
5 aluminum measuring poles	18.24
1380 gallons of gasoline for company cars	386.40
expenses and mileage for personal cars	1284.05
employment of tally men for the project	4080.00
cost of Port-a-Punch cards and plates	160.00
cost of Port-a-Punch boards	50.00
cost of data processing	2498.48
CASH OUTLAY - TOTAL COST	<u>\$ 9,839.12</u>

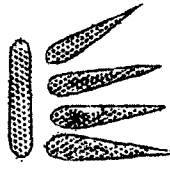
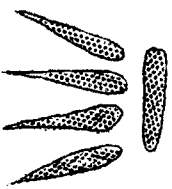
The cash outlay per plot was \$12.98. In addition to this cost, 4 to 6 regular company men contributed a part of their time to the project. This roughly calculated contribution and the cash outlay combined to make a total project cost of \$30.72 per plot.

CAL STOTT,
Forester

CELOTEX CUMULATIVE PLOT RECORD

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
JULY	Cruiser No.	1							3	1	3	1			1	2	2	1	2			1	1	2	1	2			2	2	2	2	2	
		2						1	1	2	2	2			2	2	2	2	2			2	2	3	2	1			2	2	2	3	2	
		3						-	1	2	3	2	3		2	2	3	2	2	2		2	3	3	2	3			2	2	2	3	2	
		4						2	1	2	2	2	2		3	3	3	3	3	3		3	2	2	3	3			3	5	4	4		
	Total						6	5*	9	8				8	11*	12*	8	9			8	8	10	8	9			9	11	12	10			
	Accum.						14	19	28	36				44	55	67	75	84			92	100	110	118	127			136	147	159	169			
	Proposed						16	24	32	40				48	56	64	72	80			88	97	105	113	121			129	137	145	153			
AUGUST	Cruiser No.	1	2	2	2	1	2		2	2	2	2	2	2	1	2	2		2	1	2	2	2			2	2	2	2	2	2	1		
		2	2	3	1	1	2		2	2	2	2	2	2	3	2	3		2	3	3	2	3			2	2	2	2	2	2	-		
		3	2	2	1	2	2		2	2	2	2	2	2	2	2	2		2	2	2	2	2			2	2	2	2	2	2	2		
		4	3	1	2	4	1	2		2	2	2	2	2	3	2	2		2	2	2	2	2			2	2	3	3	2	2			
	Total	10	8*	9	8	5	8		10*	10*	9	8	9		8	9		8	8	9	8	9			8	9		8	9	9*	6*			
	Accum.	179	187	196	204	209	217		227	237	246	254	263		271	279	288	296	305		313	322	331	340	346			340	346					
	Proposed	161	169	177	186	194	202		210	218	226	234	242		250	258	266	275	283		291	299	307	315	323			315	323					
SEPTEMBER	Cruiser No.	1	2	1	2	1		3	1	2	2	2	2		1	2	1	3	2															
		2	4	2	3	3		3	1	2	2	3			2	2	2	2	2	2		2	2	3	2			2	2	2	2	2		
		3	2	1	2	2		3	2	2	2	2			2	3	3	4	2			2	2	2	2			2	2	2	2	2	2	
		4	1	2	3	2		3	2	3	2	2			4	3	4	3	3			3	3	2	3			2	2	2	2	2	1	
	Total	9	6	11*	9*		14*	6	9	8	9			9	11*	11*	13*	9			9	10*	11*	11*			9	8	7					
	Accum.	355	361	372	381		395	401	410	418	427			436	447	458	471	480			489	499	510	521	530			538	545					
	Proposed	331	339	347	355		364	372	380	388	396			404	412	420	428	436			444	453	461	469	477			485	493					
OCTOBER	Cruiser No.	1	1	2	2		2	1	-	3	2			2	1	2	2	2			2	2	2	1				2	2	1	2	2		
		2	2	2	2		2	2	2	2	2			2	2	2	2	3			2	4	2	2				3	2	2	2	2	2	
		3	2	2	2		2	2	1	3	2			3	3	2	3	2			2	3	2	3	1			3	2	2	2	2	2	
		4	2	2	1		2	2	2	-	2	2			4	3	4	2	2			2	2	2	1				3	2	2	2	2	2
	Total	7	8	7		8	7	3	10	9*			12*	9	11*	11*	10*			9*	13*	9*	10*	5			9*	8*	9*	9	10			
	Accum.	552	560	567		575	582	585	595	604			616	625	636	647	657			666	679	688	698	703			712	720	729	738	748			
	Proposed	501	509	517		525	533	542	550	558			566	574	582	590	598			606	614	622	631	639			647	655	663	671	679			
NOVEMBER	Cruiser No.	1																																
		2																																
		3																																
		4																																
	Total																																	
	Accum.																																	
	Proposed																																	
	Total																																	
	Accum.																																	
	Proposed																																	

* A Fifth Crew On These Days

WATCH FOR
THE NEW CFI LEAFLETS
STATISTICAL 
 PROCEDURES

ONE IDEA
ON ONE PAGE
AT ONE TIME

Beginning -

DECEMBER 1959